

NULL Functions

Table 1 - Employees

Q1 SELECT employee-id,
name
IF NULL (salary, 0) AS salary
FROM employees ;

employee-id	name	salary-with-default
1	Alice	5000
2	Bob	0
3	Charlie	7000
4	Dang	0

Q2 SELECT employee-id,
name
IF NULL (department, 'not assigned') AS department
FROM employees ;

employee-id	name	department-name
1	Alice	HR
2	Bob	IT
3	Charlie	Not assigned
4	Dang	Finance

Table 2 - Orders

Q3
SELECT customer-id
FROM orders
WHERE customer-id IS NULL

order_id	customer_id
103	NULL

Q4
SELECT order-id,
customer-id
IF NULL (delivery-date, 'Pending') AS delivery-date
FROM orders

order-id	customer-id	delivery-status
101	201	2024-12-01
102	202	Pending
103	NULL	2024-12-03

Table 3 - Students

Q5
SELECT student-id,
name
IF NULL (grade, 0) AS grade
FROM students

student-id	name	final grade
1	Ethan	85
2	Maya	0
3	Olivia	90

Q6
SELECT grade
FROM student
WHERE grade IS NULL

not-graded-count
1

Table 4 - Products

Q7 SELECT product-id,
name
IF NULL (discount, 0) AS discount
SUM (price - discount) AS FINAL PRICE
FROM products ;

product-id	name	final-price
501	Keyboard	25
502	Mouse	10
503	Monitor	100

Table 5 - Customers

Q5 SELECT email

missing_email_count
2

Q9 SELECT customer-id,
name
IF NULL (email, 'No Email') AS email-display
FROM customers ;

customer-id	name	email-display
1	Linda	No Email
2	Joseph	joseph@email.com
3	Nia	No Email

IF NULL (account-type, 'Unknown') AND (balance, 0)
FROM Bank-Accounts;

account-id	account-type	balance
A1	savings	0
A2	current	5000
A3	Unknown	2000

Table 12 - Projects

Q16 SELECT project-id,
title

IF NULL (start-date, 'TBD') AS start-date
FROM projects;

project-id	title	start-display
1	Website revamp	2025-01-10
2	Mobile App	TBD
3	Data Migration	TBD

Table 13 - Reviews

Q17 SELECT review-id,
product-id,

IF NULL (comment, 'No comment') AND (rating, 0)
FROM Reviews;

review-id	product-id	comment-display	rating-display
1	501	Great product	4
2	502	No comment	0
3	503	Works fine	3

Table 14 - Suppliers

```

Q18      SELECT  supplier-id,
              name
COALESCE (phone, alt-phone) AS contact_number
IF NULL (phone, 'No Contact')
FROM suppliers;

```

supplier_id	name	contact-number
1	Global Goods	123456789
2	Best Supplies	987654321
3	Value Source	No Contact

Table 15 - User-Settings

```
Q19 SELECT user_id,  
       theme  
CASE  
  WHEN Theme IS NULL THEN 'Light' END AS 'theme-set'  
  WHEN Language = NULL THEN 'English' END AS 'language'  
  WHEN Timezone = NULL THEN 'UTC' END AS 'timezone-s'  
END AS not-theme-set FROM User-settings;
```

user_id	theme_set	language_set	timezone_set
1	Light	English	UTC
2	Dark	English	UTC + 1
3	Light	English	UTC

Table 16 - Maintenance

Q20 SELECT record_id,
 machine_id

 CASE
 WHEN issue = NULL THEN 'Unknown Issue'
 WHEN technician = NULL THEN 'Not Assigned'
 END AS issue_log,
 technician_name
FROM Maintenance;

record_id	machine_id	issue_log	technician_name
1	M101	Overheating	Not assigned
2	M102	Unknown issue	Not assigned
3	M103	Jammed	Alex